

Mayank rawat

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EDUCATION

J.C. Bose University of Science & Technology, YMCA

Bachelor of Technology in Computer Engineering - 6.6 CGPA

Faridabad, Haryana

2021 – 2025

KCM World School

12th Non-Medical (CBSE), Percentage : 85.4

Palwal

2020 – 2021

KCM Public School

10th (CBSE), Percentage : 82.2

Palwal

2018 – 2019

PROFESSIONAL EXPERIENCE

SDE 1

May 2025 – Present

The Regiment

Chandigarh

- Designed and developed scalable backend services using **Node.js**, **TypeScript**, and **NestJS**, following RESTful API standards and implementing **TCP-based microservices** for reliable inter-service communication.
- Integrated **React.js** + **Redux** frontends with backend APIs, ensuring **end-to-end type safety** and smooth full-stack collaboration using TypeScript.
- Built and maintained a **custom SMTP mail service** for transactional emails, configuring **SPF**, **DKIM**, and **DMARC** to improve deliverability and security.
- Deployed and managed services on **Linux VPS**, configuring **Nginx**, **SSL/HTTPS**, domains, and DNS for production-ready environments.
- Containerized applications using **Docker**, optimized **CI/CD pipelines**, and wrote **Bash scripts** to automate deployments and operational tasks.
- Implemented **JWT-based authentication**, **RBAC**, and robust validation, and worked with **PostgreSQL**, **MySQL**, **MongoDB**, and **Redis** for efficient data handling and caching.

PROJECTS

MailTR | Node.js, SMTP, Linux, Docker, Prometheus, Grafana | *Live* | *GitHub*

- Designed and built a custom mailing service using a self-hosted **SMTP server**, containerized with **Docker** and deployed via automated **CI/CD** on Linux-based infrastructure.
- Implemented secure email delivery with **SPF**, **DKIM**, and **DMARC**, along with retry queues, failure handling, and structured logging to ensure reliability and high deliverability.
- Integrated **Prometheus** and **Grafana** to monitor email throughput, failures, and system health, enabling observability and proactive issue detection.

SquadUp | NestJS, React, WebSockets, Redis (In Progress) | *Live* | *GitHub*

- Building a real-time collaboration platform enabling users to code together and **compile programs in multiple languages** within shared sessions.
- Implemented live synchronization using **WebSockets** and **Redis** for session state management and low-latency updates.
- Designing a scalable backend architecture with authentication, room management, secure code execution orchestration, and real-time communication.

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, SQL, Bash

Backend Technologies: Node.js, NestJS, Express.js, REST APIs, SMTP

Frontend Technologies: React.js, Next.js, HTML, CSS

Databases & Caching: PostgreSQL, MongoDB, Redis

DevOps & Infrastructure: Linux, Docker, Nginx, CI/CD, Prometheus, Grafana

Tools: Git, GitHub, Postman, Firebase, VS Code

Core CS Concepts: Data Structures, OOP, DBMS, Operating Systems, Networking

Problem Solving: Solved 150+ DSA problems on LeetCode